

Dialog 10/809.312
3/22/2006 LLM

Trying 31060000009999...Open

DIALOG INFORMATION SERVICES

PLEASE LOGON:

***** HHHHHHHH SSSSSSSS? ### Status: Signing onto Dialog *****

ENTER PASSWORD:

***** HHHHHHHH SSSSSSSS? *****

Welcome to DIALOG

Status: Login successfulDialog level 05.10.03D

Last logoff: 21mar06 16:27:33

Logon file405 22mar06 16:15:26

*** ANNOUNCEMENTS ***

NEW FILES RELEASED

***Regulatory Affairs Journals (File 183)

***Index Chemicus (File 302)

***Inspec (File 202)

RELOADS COMPLETED

*** MEDLINE has been reloaded with the 2006 MeSH (Files 154 & 155)

*** The 2005 reload of the CLAIMS files (Files 340, 341, 942)

is now available online.

RESUMED UPDATING

***EDGARPLUS(TM)-Williams Act Filings (File 773)

***EDGARPLUS(TM)-Prospectuses (File 774)

***EDGARPLUS(TM)-Registration Statements (File 775)

***EDGARPLUS(TM)-6K,8K, and 10C Filings (File 776)

***EDGARPLUS(TM)-10-K & 20F Filings (File 778)

***EDGARPLUS(TM)-10-Q Filings (File 779)

***EDGARPLUS(TM)-Proxy Statements (File 780)

Chemical Structure Searching now available in Prous Science Drug Data Report (F452), Prous Science Drugs of the Future (F453), IMS R&D Focus (F445/955), Pharmaprojects (F128/928), Beilstein Facts (F390), Derwent Chemistry Resource (F355) and Index Chemicus (File 302).

>>>For the latest news about Dialog products, services, content<<<

>>>and events, please visit What's New from Dialog at <<<

>>><http://www.dialog.com/whatsnew/>. You can find news about<<<

>>>a specific database by entering HELP NEWS <file number>.<<<

* * *

SYSTEM:HOME

Cost is in DialUnits

Menu System II: D2 version 1.7.9 term=ASCII

*** DIALOG HOMEBASE(SM) Main Menu ***

Information:

1. Announcements (new files, reloads, etc.)
2. Database, Rates, & Command Descriptions
3. Help in Choosing Databases for Your Topic
4. Customer Services (telephone assistance, training, seminars, etc.)
5. Product Descriptions

Connections:

6. DIALOG(R) Document Delivery
7. Data Star(R)

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/H = Help /L = Logoff /NOMENU = Command Mode

Enter an option number to view information or to connect to an online service. Enter a BEGIN command plus a file number to search a database (e.g., B1 for ERIC).

?

Terminal set to DLINK

*** DIALOG HOMEBASE(SM) Main Menu ***

Information:

1. Announcements (new files, reloads, etc.)
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3. Help in Choosing Databases for Your Topic
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6. DIALOG(R) Document Delivery
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/H = Help /L = Logoff /NOMENU = Command Mode

Enter an option number to view information or to connect to an online service. Enter a BEGIN command plus a file number to search a database (e.g., B1 for ERIC).

? b biosci

```
>>>          44 is unauthorized
>>>          76 is unauthorized
>>>2 of the specified files are not available
      22mar06 16:15:35 User276741 Session D114.1
          $0.00      0.227 DialUnits FileHomeBase
      $0.00 Estimated cost FileHomeBase
      $0.03 TELNET
      $0.03 Estimated cost this search
      $0.03 Estimated total session cost      0.227 DialUnits
```

SYSTEM:OS - DIALOG OneSearch

```
File 5:Biosis Previews(R) 1969-2006/Mar W3
      (c) 2006 BIOSIS
File 24:CSA Life Sciences Abstracts 1966-2006/Feb
      (c) 2006 CSA.
File 28:Oceanic Abstracts 1966-2006/Feb
      (c) 2006 CSA.
File 34:SciSearch(R) Cited Ref Sci 1990-2006/Mar W2
      (c) 2006 Inst for Sci Info
File 35:Dissertation Abs Online 1861-2006/Feb
      (c) 2006 ProQuest Info&Learning
File 40:Enviroline(R) 1975-2005/Dec
File 41:Pollution Abstracts 1966-2006/Feb
      (c) 2006 CSA.
File 50:CAB Abstracts 1972-2006/Feb
      (c) 2006 CAB International
File 65:Inside Conferences 1993-2006/Mar 22
```

(c) 2006 BLDSC all rts. reserv.
File 71:ELSEVIER BIOBASE 1994-2006/Mar W3
(c) 2006 Elsevier Science B.V.
File 73:EMBASE 1974-2006/Mar 22
(c) 2006 Elsevier Science B.V.
File 91:MANTIS(TM) 1880-2006/Feb
2006 (c) Action Potential
File 94:JICST-EPlus 1985-2006/Dec W4
(c)2006 Japan Science and Tech Corp(JST)
File 98:General Sci Abs 1984-2004/Dec
(c) 2005 The HW Wilson Co.
File 110:WasteInfo 1974-2002/Jul
(c) 2002 AEA Techn Env.
***File 110: This file is closed (no updates)**
File 135:NewsRx Weekly Reports 1995-2006/Mar W2
(c) 2006 NewsRx
***File 135: Please see HELP NEWS135 for information on select journal titles.**
File 136:BioEngineering Abstracts 1966-2006/Feb
(c) 2006 CSA.
File 143:Biol. & Agric. Index 1983-2006/Feb
(c) 2006 The HW Wilson Co
File 144:Pascal 1973-2006/Feb W4
(c) 2006 INIST/CNRS
File 155:MEDLINE(R) 1951-2006/Mar 21
(c) format only 2006 Dialog
***File 155: Medline has been reloaded. Some accession numbers have changed.**
File 164:Allied & Complementary Medicine 1984-2006/Mar
(c) 2006 BLHCIS
File 172:EMBASE Alert 2006/Mar 22
(c) 2006 Elsevier Science B.V.
File 185:Zoological Record Online(R) 1978-2006/Mar
(c) 2006 BIOSIS
File 357:Derwent Biotech Res. _1982-2006/Mar W3
(c) 2006 Thomson Derwent & ISI
File 369:New Scientist 1994-2006/Aug W4
(c) 2006 Reed Business Information Ltd.
File 370:Science 1996-1999/Jul W3
(c) 1999 AAAS
***File 370: This file is closed (no updates). Use File 47 for more current information.**
File 391:Beilstein Reactions 2005/Q3
(c) 2005 Beilstein GmbH
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info
File 467:ExtraMED(tm) 2000/Dec
(c) 2001 Informania Ltd.
***File 467: F467 will close on February 1, 2006.**

7.

Set	Items	Description
?	s	((b-zip (w) transcription (w) factor) and ATF5) or ATF5 or ATF-5 or ATFX or ATF-X or ATF-7 or ATF7 or NTAzip-ATF5 or NTAzipATF5 or NTAzip-ATF-5 or (activating (w) transcription (w) factor-5))
	35	B-ZIP
	1553529	TRANSCRIPTION
	5462283	FACTOR
	0	B-ZIP(W) TRANSCRIPTION(W) FACTOR
	109	ATF5
	109	ATF5

0 ATF-5
 44 ATFX
 0 ATF-X
 4 ATF-7
 24 ATF7
 0 NTAZIP-ATF5
 0 NTAZIPATF5
 0 NTAZIP-ATF-5
 364231 ACTIVATING
 1553529 TRANSCRIPTION
 141 FACTOR-5
 1 ACTIVATING (W) TRANSCRIPTION (W) FACTOR-5
 S1 179 (((B-ZIP (W) TRANSCRIPTION (W) FACTOR) AND ATF5) OR ATF5
 OR ATF-5 OR ATFX OR ATF-X OR ATF-7 OR ATF7 OR NTAZIP-ATF5
 OR NTAZIPATF5 OR NTAZIP-ATF-5 OR (ACTIVATING (W)
 TRANSCRIPTION (W) FACTOR-5))
 ? s s1 and ((differentiate or differentiation) (w) ((neural (w) stem) or
 (neural (w) progenitor)))
 179 S1
 234466 DIFFERENTIATE
 1460002 DIFFERENTIATION
 2513029 NEURAL
 897134 STEM
 12501 NEURAL (W) STEM
 2513029 NEURAL
 172683 PROGENITOR
 4855 NEURAL (W) PROGENITOR
 105 (DIFFERENTIATE OR DIFFERENTIATION) (W) (NEURAL (W) STEM OR
 NEURAL (W) PROGENITOR)
 S2 1 S1 AND ((DIFFERENTIATE OR DIFFERENTIATION) (W) ((NEURAL
 (W) STEM) OR (NEURAL (W) PROGENITOR)))
 ? t s2/medium,k

2/K/1 (Item 1 from file: 24)
 DIALOG(R) File 24:CSA Life Sciences Abstracts
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0002761745 IP ACCESSION NO: 6246196
**Downregulation of Activating Transcription Factor 5 Is Required for
 Differentiation of Neural Progenitor Cells into Astrocytes**

Angelastro, James M; Mason, Jeffrey L; Ignatova, Tatyana N; Kukekov,
 Valery G; Stengren, George B; Goldman, James E; Greene, Lloyd A
 Department of Pathology and Center for Neurobiology and Behavior, Columbia
 University College of Physicians and Surgeons, New York, New York 10032,
 Farber Institute for Neuroscience, Thomas Jefferson University,
 Philadelphia, Pennsylvania 19107, and Departments of Neuroscience and
 Neurosurgery, McKnight Brain Institute, Shands Cancer Center, University of
 Florida, Gainesville, Florida 32610

Journal of Neuroscience, v 25, n 15, p 3889-3899, April 2005
 PUBLICATION DATE: 2005

PUBLISHER: Society for Neuroscience, 11 Dupont Circle, N.W. Suite 500
 Washington DC 20036 USA, [mailto:info@sfn.org], [URL:http://apu.sfn.org/]

DOCUMENT TYPE: Journal Article
 RECORD TYPE: Abstract
 LANGUAGE: English
 SUMMARY LANGUAGE: English
 ISSN: 0270-6474

ABSTRACT:

... regulate neural progenitor cell differentiation are primarily unknown. The transcription factor activating transcription factor 5 (**ATF5**) is expressed in neural progenitors of developing brain but is absent from mature astrocytes and neurons. Here, we demonstrate that **ATF5** regulates the conversion of ventricular zone (VZ) and subventricular zone (SVZ) neural progenitors into astrocytes. Constitutive **ATF5** expression maintains neural progenitor cell proliferation and blocks their in vitro and in vivo differentiation into astrocytes. Conversely, loss of **ATF5** function promotes cell-cycle exit and allows astrocytic differentiation in vitro and in vivo. CNTF, a promoter of astrocytic differentiation, downregulates endogenous **ATF5** , whereas constitutively expressed **ATF5** suppresses CNTF-promoted astrocyte genesis. Unexpectedly, constitutive **ATF5** expression in neonatal SVZ cells both in vitro and in vivo causes them to acquire properties and anatomic distributions of VZ cells. These findings identify **ATF5** as a key regulator of astrocyte formation and potentially of the VZ to SVZ transition.

DESCRIPTORS: Astrocytes; **Differentiation** ; **Neural stem cells** ; **Tra**
nscription factors; Promoters; Brain; subventricular zone;
ventricular zone

IDENTIFIERS: **ATF5** protein

? s (inhibit or inhibition or downregulate) (s) (((b-zip (w) transcription (w) factor) and ATF5) or ATF5 or ATF-5 or ATFX or ATF-X or ATF-7 or ATF7 or NTAzip-ATF5 or NTAzipATF5 or NTAzip-ATF-5 or (activating (w) transcription (w) factor-5))

788016 INHIBIT
2740045 INHIBITION
13237 DOWNREGULATE
35 B-ZIP
1553529 TRANSCRIPTION
5462283 FACTOR
0 B-ZIP (W) TRANSCRIPTION (W) FACTOR
109 ATF5
109 ATF5
0 ATF-5
44 ATFX
0 ATF-X
4 ATF-7
24 ATF7
0 NTAZIP-ATF5
0 NTAZIPATF5
0 NTAZIP-ATF-5
364231 ACTIVATING
1553529 TRANSCRIPTION
141 FACTOR-5
1 ACTIVATING (W) TRANSCRIPTION (W) FACTOR-5
S3 17 (INHIBIT OR INHIBITION OR DOWNREGULATE) (S) (((B-ZIP (W) TRANSCRIPTION (W) FACTOR) AND ATF5) OR ATF5 OR ATF-5 OR ATFX OR ATF-X OR ATF-7 OR ATF7 OR NTAZIP-ATF5 OR NTAZIPATF5 OR NTAZIP-ATF-5 OR (ACTIVATING (W) TRANSCRIPTION (W) FACTOR-5))
? s s3 and ((differentiate or differentiation)
>>>Unmatched parentheses
? s s3 and (differentiate or differentiation)
17 S3
234466 DIFFERENTIATE

1460002 DIFFERENTIATION
 S4 9 S3 AND (DIFFERENTIATE OR DIFFERENTIATION)
 ? rd

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S5 4 RD (unique items)
 ? s s5 and ((neurotrophic (w) factor) or ngf or (nerve (w) growth (w) factor)
 or GDNF or NT3 or CTNF or BDNF)
 Processing
 Processed 10 of 29 files ...
 Completed processing all files

4 S5
 89793 NEUROTROPHIC
 5462283 FACTOR
 63988 NEUROTROPHIC (W) FACTOR
 65888 NGF
 1554098 NERVE
 6581162 GROWTH
 5462283 FACTOR
 104998 NERVE (W) GROWTH (W) FACTOR
 11751 GDNF
 1877 NT3
 56 CTNF
 27626 BDNF

S6 3 S5 AND ((NEUROTROPHIC (W) FACTOR) OR NGF OR (NERVE (W)
 GROWTH (W) FACTOR) OR GDNF OR NT3 OR CTNF OR BDNF)
 ? rd

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S7 3 RD (unique items)
 ? s s7 and ((neural (w) stem) or (neural (w) progenitor))

3 S7
 2513029 NEURAL
 897134 STEM
 12501 NEURAL (W) STEM
 2513029 NEURAL
 172683 PROGENITOR
 4855 NEURAL (W) PROGENITOR

S8 2 S7 AND ((NEURAL (W) STEM) OR (NEURAL (W) PROGENITOR))
 ? type s8/medium,k/all

8/K/1 (Item 1 from file: 5)
 DIALOG(R)File 5:Biosis Previews(R)
 (c) 2006 BIOSIS. All rts. reserv.

0014355612 BIOSIS NO.: 200300314331
Regulated expression of ATF5 is required for the progression of neural progenitor cells to neurons.
 AUTHOR: Angelastro James M (Reprint); Ignatova Tatyana N; Kukekov Valery G; Steindler Dennis A; Stengren George B; Mendelsohn Cathy; Greene Lloyd A
 AUTHOR ADDRESS: Columbia University College of Physicians and Surgeons, 630 West 168th Street, 15-401, New York, NY, 10032, USA**USA
 AUTHOR E-MAIL ADDRESS: jma14@columbia.edu
 JOURNAL: Journal of Neuroscience 23 (11): p4590-4600 June 1, 2003 2003
 MEDIUM: print
 ISSN: 0270-6474 (ISSN print)
 DOCUMENT TYPE: Article

RECORD TYPE: Abstract
LANGUAGE: English

Regulated expression of ATF5 is required for the progression of neural progenitor cells to neurons.

...ABSTRACT: the transition of neuroprogenitor cells to postmitotic neurons. We report that the bZIP transcription factor **ATF5** plays a major regulatory role in this process. In developing brain **ATF5** expression is high within ventricular zones containing **neural stem** and progenitor cells and is undetectable in postmitotic neurons. In attached clonal neurosphere cultures **ATF5** is expressed by **neural stem** /progenitor cells and is undetectable in tau-positive neurons. In PC12 cell cultures **nerve growth factor (NGF)** dramatically downregulates endogenous **ATF5** protein and transcripts, whereas exogenous **ATF5** suppresses **NGF**-promoted neurite outgrowth. Such **inhibition** requires the repression of CRE sites. In contrast, loss of function conferred by dominant-negative **ATF5** accelerates **NGF**-promoted neuritogenesis. Exogenous **ATF5** also suppresses, and dominant-negative **ATF5** and a small-interfering RNA targeted to **ATF5** promote, neurogenesis by cultured nestin-positive telencephalic cells. These findings indicate that **ATF5** blocks the **differentiation** of neuroprogenitor cells into neurons and must be downregulated to permit this process to occur.

...REGISTRY NUMBERS: **nerve growth factor**

DESCRIPTORS:

...ORGANISMS: PARTS ETC: **neural progenitor cells**

CHEMICALS & BIOCHEMICALS: ... **nerve growth factor { NGF }**;

8/K/2 (Item 1 from file: 357)

DIALOG(R)File 357:Derwent Biotech Res.

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0376920 DBR Accession No.: 2005-22626 PATENT

Promoting differentiation of neural stem cell or neural progenitor cell into differentiated neural cell, involves inhibiting b-zip transcription factor in cell - neural stem cell culture and differentiation promotion for use in disease therapy and tissue engineering

AUTHOR: GREENE L A; ANGELASTRO J M

PATENT ASSIGNEE: GREENE L A; ANGELASTRO J M 2005

PATENT NUMBER: US 20050164384 PATENT DATE: 20050728 WPI ACCESSION NO.: 2005-521426 (200553)

PRIORITY APPLIC. NO.: US 809312 APPLIC. DATE: 20040324

NATIONAL APPLIC. NO.: US 809312 APPLIC. DATE: 20040324

LANGUAGE: English

Promoting differentiation of neural stem cell or neural progenitor cell into differentiated neural cell, involves inhibiting b-zip transcription factor in cell - neural stem cell culture and differentiation promotion for use in disease therapy and tissue engineering

ABSTRACT: DERWENT ABSTRACT: NOVELTY - Promoting (M1) **differentiation** of a **neural stem** cell or a **neural progenitor** cell into a differentiated neural cell, involves inhibiting b-zip transcription factor (**ATF5**) in the cell. DETAILED DESCRIPTION - Promoting (M1) **differentiation** of a **neural stem** cell or a **neural progenitor** cell into a differentiated neural cell, involves inhibiting b-zip

transcription factor (ATF5) in the cell. Optionally, (M1) involves contacting the neural stem cells or neural progenitor cells with ATF5 to suppress differentiation in the neural stem cells or neural progenitor cells, for suppressing differentiation of neural stem cells or neural progenitor cells into differentiated neural cells. INDEPENDENT CLAIMS are also included for: (1) a differentiated neural...

... by (M1); (2) producing (M2) differentiated neural cells, involves obtaining or generating a culture of neural stem cells or neural progenitor cells, contacting the culture of neural stem cells or neural progenitor cells with ATF5 inhibitor to produce differentiated neural cells, and optionally, contacting the differentiated neural cells with one...

... 5) isolating a population of differentiated neural cells, involves obtaining or generating a culture of neural stem cells or neural progenitor cells that express enhanced green fluorescent protein (eGFP), contacting the culture of neural stem cells or neural progenitor cells with ATF5 inhibitor to produce differentiated neural cells that express eGFP, optionally, contacting the differentiated neural cells...

... treating a condition associated with nervous tissue degeneration, involves obtaining or generating a culture of neural stem cells or neural progenitor cells, contacting the neural stem cells or neural progenitor cells with ATF5 inhibitor to produce neurons, where some or all of the neurons are degenerated, contacting the...

... all of the degenerated neurons; (7) a composition (C1), comprising a nucleic acid encoding an ATF5 inhibitor, a vector, and optionally, a carrier; (8) identifying (M5) an agent which inhibits ATF5 , involves contacting a candidate agent with ATF5 , in the presence of cAMP response element (CRE), and assessing the ability of the candidate agent to inhibit interaction between ATF5 and CRE; (9) determining whether a subject has a neural tumor, involves assaying a diagnostic sample of the subject for ATF5 , where detection of an ATF5 level elevated above normal is diagnostic of a neural tumor in the subject; (10) assessing...

... undergoing treatment for a neural tumor, involves assaying a diagnostic sample of the subject for ATF5 , where a normal level of ATF5 in the diagnostic sample is indicative of successful therapy to treat the neural tumor, and a level of ATF5 elevated above normal in the diagnostic sample is indicative of a need to continue therapy...

...subject who has a neural tumor, involves assaying a diagnostic sample of the subject for ATF5 , where the subject's prognosis improves with a decreased level of ATF5 in the diagnostic sample, and the subject's prognosis worsens with an increased level of ATF5 in the diagnostic sample; and (12) kit (K1) for use in detecting a neural tumor, comprising an ATF5 -specific agent, and reagents suitable for detecting ATF5 , where the ATF5 specific agent is chosen from an agent reactive with ATF5 and a nucleic acid probe which hybridizes to nucleic acid encoding ATF5 . BIOTECHNOLOGY - Preferred Method: (M1) further involves contacting the neural stem cell or neural progenitor cell with one or more neurotrophic factors. The differentiated neural cell is chosen from astrocyte...

... cell, neuron, oligodendrocyte, oligodendroglial cell, and Schwann cell.

The differentiated neural cell expresses eGFP. The **ATF5** is inhibited in the **neural stem** or **neural progenitor** cell, in vivo or in vitro, by contacting the cell with an inhibitor of **ATF5**. (M1) further involves the step of transplanting the differentiated neural cell into a subject (e...

... cells into a subject. (M5) further involves the step of contacting the candidate agent with **neural stem** cells or **neural progenitor** cell containing **ATF5**, and determining if the agent has an effect on an **ATF5**-associated biological event in the cells. The **neural stem** cells are **neural progenitor** cells express luciferase. **ACTIVITY** - Neuroprotective; Nootropic; Tranquilizer; Vulnerary; Respiratory-Gen.; Vasotropic; Muscular-Gen.; Cerebroprotective; Nootropic; Antidiabetic; Immunosuppressive; Antiinflammatory; CNS-Gen.; Antibacterial; Anti-HIV. **MECHANISM OF ACTION** - Inhibits **ATF5** in cell (claimed). In vitro analysis of the effect of exogenous **ATF5** and of NTazip- **ATF5** on **nerve growth factor** (**NGF**)-promoted neurite outgrowth was carried out as follows. The pheochromocytoma (PC12) cells were transiently transfected with pCMS-eGFP, without insert or expressing FLAG-tagged **ATF5** or FLAG-tagged NTazip- **ATF5**. Two days after transfection, the cultures were treated with **NGF**. Cultures were fixed at the indicated times, after commencement of **NGF** exposure, and immunostained with anti-GFP and anti-FLAG. Transfected cells were assessed for the presence or absence of neuritis. The results indicated that overexpression of **ATF5** represses neurite outgrowth in PC12 cells and NTazip- **ATF5** accelerates neuritogenesis. **USE** - (M1) is useful for promoting **differentiation** of **neural stem** cell or **neural progenitor** cell into differentiated neural cell. (K1) is useful in detecting a neural tumor. (M4) is...

DESCRIPTORS: **neural stem** cell, progenitor cell culture, **differentiation** promotion, b-zip transcription factor **inhibition**, **ATF5** -inhibitor, expression vector, **neurotrophic factor**, enhanced green fluorescent protein, nervous tissue degeneration, Alzheimer disease, blunt trauma, hypoxia, invasive trauma, cerebral...

? ds

Set	Items	Description
S1	179	((B-ZIP (W) TRANSCRIPTION (W) FACTOR) AND ATF5) OR ATF5 OR ATF-5 OR ATFX OR ATF-X OR ATF-7 OR ATF7 OR NTAZIP-ATF5 OR NT-AZIPATF5 OR NTAZIP-ATF-5 OR (ACTIVATING (W) TRANSCRIPTION (W) FACTOR-5))
S2	1	S1 AND ((DIFFERENTIATE OR DIFFERENTIATION) (W) ((NEURAL (-W) STEM) OR (NEURAL (W) PROGENITOR)))
S3	17	(INHIBIT OR INHIBITION OR DOWNREGULATE) (S) ((B-ZIP (W) TRANSCRIPTION (W) FACTOR) AND ATF5) OR ATF5 OR ATF-5 OR ATFX OR ATF-X OR ATF-7 OR ATF7 OR NTAZIP-ATF5 OR NTAZIPATF5 OR NTAZI-P-ATF-5 OR (ACTIVATING (W) TRANSCRIPTION (W) FACTOR-5))
S4	9	S3 AND (DIFFERENTIATE OR DIFFERENTIATION)
S5	4	RD (unique items)
S6	3	S5 AND ((NEUROTROPHIC (W) FACTOR) OR NGF OR (NERVE (W) GRO-WTH (W) FACTOR) OR GDNF OR NT3 OR CTNF OR BDNF)
S7	3	RD (unique items)
S8	2	S7 AND ((NEURAL (W) STEM) OR (NEURAL (W) PROGENITOR))

? s s1 and ((neurotrophic (w) factor) or ngf or (nerve (w) growth (w) factor) or GDNF or NT3 or CTNF or BDNF)

Processing

Processed 20 of 29 files ...

Completed processing all files

179 S1

89793 NEUROTROPHIC

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5462283 FACTOR
63988 NEUROTROPHIC (W) FACTOR
65888 NGF
1554098 NERVE
6581162 GROWTH
5462283 FACTOR
104998 NERVE (W) GROWTH (W) FACTOR
11751 GDNF
1877 NT3
56 CTNF
27626 BDNF
S9 9 S1 AND ((NEUROTROPHIC (W) FACTOR) OR NGF OR (NERVE (W)
GROWTH (W) FACTOR) OR GDNF OR NT3 OR CTNF OR BDNF )
? rd

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.
S10 4 RD (unique items)
? s s10 and (differentiate or differentiation)
4 S10
234466 DIFFERENTIATE
1460002 DIFFERENTIATION
S11 4 S10 AND (DIFFERENTIATE OR DIFFERENTIATION)
? s s11 not pd>030404
>>>One or more prefixes are unsupported
>>> or undefined in one or more files.
4 S11
7215677 PD>030404
S12 3 S11 NOT PD>030404
? t s12/free/1-3

12/8/1 (Item 1 from file: 5)
0014792853 BIOSIS NO.: 200400160194
Functional expression of ATF5 in ventricular zone neuronal progenitors
during neocortical development.
2003

12/8/2 (Item 2 from file: 5)
0014355612 BIOSIS NO.: 200300314331
Regulated expression of ATF5 is required for the progression of neural
progenitor cells to neurons.
2003

12/8/3 (Item 1 from file: 155)
DIALOG(R)File 155:(c) format only 2006 Dialog. All rts. reserv.

19897017 PMID: 15829641
Downregulation of activating transcription factor 5 is required for
differentiation of neural progenitor cells into astrocytes.
Apr 13 2005
Descriptors: *Activating Transcription Factors--metabolism--ME;
*Astrocytes--metabolism--ME; *Cell Differentiation --physiology--PH;
*Down-Regulation--physiology--PH; *Neurons--metabolism--ME; *Stem Cells
--physiology--PH; Activating Transcription Factors--genetics--GE; Animals;
Animals, Newborn; Astrocytes--drug effects--DE; Brain --anatomy and
histology--AH; Brain--metabolism--ME; Bromodeoxyuridine--metabolism--ME;
Cell Count--methods--MT; Cell Differentiation --drug effects--DE; Cells,

```

Cultured; Ciliary **Neurotrophic Factor** --pharmacology--PD; Comparative Study; Down-Regulation--drug effects--DE; Embryo; Glial Fibrillary Acidic Protein--metabolism--ME; Green Fluorescent Proteins--biosynthesis--BI; Immunohistochemistry--methods--MT; Intermediate Filament Proteins--metabolism--ME; Ki-67 Antigen--metabolism--ME; Microscopy, Confocal --methods--MT; Models, Anatomic; Nerve Tissue Proteins--metabolism--ME; Neural Cell Adhesion Molecule L1--pharmacology--PD; Neurons--drug effects --DE; RNA, Messenger--metabolism--ME; RNA, Small Interfering--pharmacology --PD; Rats; Rats, Sprague-Dawley; Research Support, Non-U.S. Gov't; Research Support, U.S. Gov't, P.H.S.; Reverse Transcriptase Polymerase Chain Reaction--methods--MT; Sialic Acids--pharmacology--PD; Stem Cells --drug effects--DE; Transfection--methods--MT; Tubulin--metabolism--ME; beta Catenin--metabolism--ME

CAS Registry No.: 0 (Activating Transcription Factors); 0 (Ciliary Neurotrophic Factor); 0 (Glial Fibrillary Acidic Protein); 0 (Intermediate Filament Proteins); 0 (Ki-67 Antigen); 0 (Nerve Tissue Proteins); 0 (Neural Cell Adhesion Molecule L1); 0 (RNA, Messenger); 0 (RNA, Small Interfering); 0 (Sialic Acids); 0 (Tubulin); 0 (beta Catenin); 0 (nestin); 0 (polysialyl neural cell adhesion molecule); 147336-22-9 (Green Fluorescent Proteins); 59-14-3 (Bromodeoxyuridine)
 ? s s1 and (transplant?? (s) ((differentiated or mature) (w) (neural (w) cell)))

Processing

Processed 10 of 29 files ...

Processing

Completed processing all files

```

      179 S1
      595931 TRANSPLANT??
      413532 DIFFERENTIATED
      634023 MATURE
      2513029 NEURAL
      13817386 CELL
           2 TRANSPLANT??(S) (DIFFERENTIATED OR MATURE) (W) NEURAL(W) CELL
S13      0 S1 AND (TRANSPLANT?? (S) ((DIFFERENTIATED OR MATURE) (W)
           (NEURAL (W) CELL)))

```

? s s1 and (((differentiated or mature) (w) (neural (w) cell)))

Processing

```

      179 S1
      413532 DIFFERENTIATED
      634023 MATURE
      2513029 NEURAL
      13817386 CELL
           33 (DIFFERENTIATED OR MATURE) (W) NEURAL(W) CELL
S14      1 S1 AND ( ((DIFFERENTIATED OR MATURE) (W) (NEURAL (W)
           CELL)))

```

? t s14/free/1

14/8/1 (Item 1 from file: 357)

0376920 DBR Accession No.: 2005-22626

Promoting differentiation of neural stem cell or neural progenitor cell into differentiated neural cell , involves inhibiting b-zip transcription factor in cell - neural stem cell culture and differentiation promotion for use in disease therapy and tissue engineering 2005

? s s1 and (neurodegeneration or neurodegenerative)

```

      179 S1
      47587 NEURODEGENERATION
      96196 NEURODEGENERATIVE
S15      2 S1 AND (NEURODEGENERATION OR NEURODEGENERATIVE)

```

? rd

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S16 2 RD (unique items)

? t s16/free/all

16/8/1 (Item 1 from file: 357)

0376920 DBR Accession No.: 2005-22626

Promoting differentiation of neural stem cell or neural progenitor cell into differentiated neural cell, involves inhibiting b-zip transcription factor in cell - neural stem cell culture and differentiation promotion for use in disease therapy and tissue engineering 2005

16/8/2 (Item 2 from file: 357)

0354939 DBR Accession No.: 2005-00643

Obtaining neural progenitor cells for treating neurodegenerative disorders comprises dissociating undifferentiated human blastocyst-derived stem (hBS) cells by enzymatic/mechanical treatment to obtain hBS cell aggregates or single cells - stem cell culture for neural progenitor cell production for use in disease cell therapy and transplantation 2004

? ds

Set	Items	Description
S1	179	((B-ZIP (W) TRANSCRIPTION (W) FACTOR) AND ATF5) OR ATF5 OR ATF-5 OR ATFX OR ATF-X OR ATF-7 OR ATF7 OR NTAZIP-ATF5 OR NTAZIPATF5 OR NTAZIP-ATF-5 OR (ACTIVATING (W) TRANSCRIPTION (W) FACTOR-5))
S2	1	S1 AND ((DIFFERENTIATE OR DIFFERENTIATION) (W) ((NEURAL (-W) STEM) OR (NEURAL (W) PROGENITOR)))
S3	17	(INHIBIT OR INHIBITION OR DOWNREGULATE) (S) ((B-ZIP (W) TRANSCRIPTION (W) FACTOR) AND ATF5) OR ATF5 OR ATF-5 OR ATFX OR ATF-X OR ATF-7 OR ATF7 OR NTAZIP-ATF5 OR NTAZIPATF5 OR NTAZIP-ATF-5 OR (ACTIVATING (W) TRANSCRIPTION (W) FACTOR-5))
S4	9	S3 AND (DIFFERENTIATE OR DIFFERENTIATION)
S5	4	RD (unique items)
S6	3	S5 AND ((NEUROTROPHIC (W) FACTOR) OR NGF OR (NERVE (W) GROWTH (W) FACTOR) OR GDNF OR NT3 OR CTNF OR BDNF)
S7	3	RD (unique items)
S8	2	S7 AND ((NEURAL (W) STEM) OR (NEURAL (W) PROGENITOR))
S9	9	S1 AND ((NEUROTROPHIC (W) FACTOR) OR NGF OR (NERVE (W) GROWTH (W) FACTOR) OR GDNF OR NT3 OR CTNF OR BDNF)
S10	4	RD (unique items)
S11	4	S10 AND (DIFFERENTIATE OR DIFFERENTIATION)
S12	3	S11 NOT PD>030404
S13	0	S1 AND (TRANSPLANT?? (S) ((DIFFERENTIATED OR MATURE) (W) (NEURAL (W) CELL)))
S14	1	S1 AND (((DIFFERENTIATED OR MATURE) (W) (NEURAL (W) CELL)-))
S15	2	S1 AND (NEURODEGENERATION OR NEURODEGENERATIVE)
S16	2	RD (unique items)
? s s4 and ((neural (w) stem) or (neural (w) progenitor))		
	9	S4
	2513029	NEURAL
	897134	STEM
	12501	NEURAL(W)STEM
	2513029	NEURAL
	172683	PROGENITOR

4855 NEURAL(W) PROGENITOR
S17 7 S4 AND ((NEURAL (W) STEM) OR (NEURAL (W) PROGENITOR))
? rd

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S18 2 RD (unique items)
? t s18/free/all

18/8/1 (Item 1 from file: 5)
0014355612 BIOSIS NO.: 200300314331
Regulated expression of ATF5 is required for the progression of neural progenitor cells to neurons.
2003

18/8/2 (Item 1 from file: 357)
0376920 DBR Accession No.: 2005-22626
Promoting differentiation of neural stem cell or neural progenitor cell into differentiated neural cell, involves inhibiting b-zip transcription factor in cell - neural stem cell culture and differentiation promotion for use in disease therapy and tissue engineering 2005
? save temp
Temp SearchSave "TA210962792" stored
? logoff

22mar06 16:32:50 User276741 Session D114.2
\$16.19 2.744 DialUnits File5
\$0.00 3 Type(s) in Format 6
\$0.16 1 Type(s) in Format 95 (KWIC)
\$0.16 4 Types
\$16.35 Estimated cost File5
\$3.18 0.513 DialUnits File24
\$2.50 1 Type(s) in Format 3
\$2.50 1 Types
\$5.68 Estimated cost File24
\$0.66 0.107 DialUnits File28
\$0.66 Estimated cost File28
\$42.14 1.795 DialUnits File34
\$42.14 Estimated cost File34
\$0.77 0.187 DialUnits File35
\$0.77 Estimated cost File35
\$0.59 0.082 DialUnits File40
\$0.59 Estimated cost File40
\$0.51 0.082 DialUnits File41
\$0.51 Estimated cost File41
\$1.70 0.369 DialUnits File50
\$1.70 Estimated cost File50
\$0.55 0.147 DialUnits File65
\$0.55 Estimated cost File65
\$6.96 0.791 DialUnits File71
\$6.96 Estimated cost File71
\$19.98 1.784 DialUnits File73
\$19.98 Estimated cost File73
\$0.41 0.096 DialUnits File91
\$0.41 Estimated cost File91
\$1.56 0.447 DialUnits File94
\$1.56 Estimated cost File94
\$0.95 0.224 DialUnits File98

\$0.95 Estimated cost File98
 \$0.45 0.078 DialUnits File110
 \$0.45 Estimated cost File110
 \$1.08 0.200 DialUnits File135
 \$1.08 Estimated cost File135
 \$0.66 0.107 DialUnits File136
 \$0.66 Estimated cost File136
 \$0.47 0.158 DialUnits File143
 \$0.47 Estimated cost File143
 \$4.82 1.071 DialUnits File144
 \$4.82 Estimated cost File144
 \$5.20 1.529 DialUnits File155
 \$0.00 1 Type(s) in Format 8
 \$0.00 1 Types
 \$5.20 Estimated cost File155
 \$0.26 0.076 DialUnits File164
 \$0.26 Estimated cost File164
 \$1.19 0.107 DialUnits File172
 \$1.19 Estimated cost File172
 \$0.81 0.131 DialUnits File185
 \$0.81 Estimated cost File185
 \$6.79 0.304 DialUnits File357
 \$2.60 1 Type(s) in Format 3
 \$0.00 4 Type(s) in Format 6
 \$2.60 5 Types
 \$9.39 Estimated cost File357
 \$0.31 0.089 DialUnits File369
 \$0.31 Estimated cost File369
 \$0.26 0.076 DialUnits File370
 \$0.26 Estimated cost File370
 \$0.00 0.102 DialUnits File391
 \$0.00 Estimated cost File391
 \$5.48 0.233 DialUnits File434
 \$5.48 Estimated cost File434
 \$0.38 0.060 DialUnits File467
 \$0.38 Estimated cost File467
 OneSearch, 29 files, 13.688 DialUnits FileOS
 \$4.80 TELNET
 \$134.37 Estimated cost this search
 \$134.40 Estimated total session cost 13.915 DialUnits

Logoff: level 05.10.03 D 16:32:50

You are now logged off

10/809,312 LLM
3/22/2006

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"20050164384"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 13:10
L2	2	"5846984".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 13:57
L3	91	((b-zip adj transcription adj factor) or ATF5 or ATF-5 or ATFX or ATF-X or ATF-7 or ATF7 or NTAzip-ATF5 or NTAzipATF5 or NTAzip-ATF-5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 14:09
L4	2	L3 and (Inhibit\$ near (ATF5 or ATF-5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 14:07
L5	31	((((b-zip adj transcription adj factor) or ATF5 or ATF-5 or ATFX or ATF-X or ATF-7 or ATF7 or NTAzip-ATF5 or NTAzipATF5 or NTAzip-ATF-5))) same inhibit\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 14:01
L6	10	((((b-zip adj transcription adj factor) or ATF5 or ATF-5 or ATFX or ATF-X or ATF-7 or ATF7 or NTAzip-ATF5 or NTAzipATF5 or NTAzip-ATF-5))) with inhibit\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 14:01
L7	2	((((b-zip adj transcription adj factor) or ATF5 or ATF-5 or ATFX or ATF-X or ATF-7 or ATF7 or NTAzip-ATF5 or NTAzipATF5 or NTAzip-ATF-5))) near inhibit\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 14:01
L8	6	L3 and ((neural adj stem) or (neural adj progenitor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 16:09
L9	2	L3 and ((differentiate or differentiation) with ((neural adj stem) or (neural adj progenitor)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 16:06

EAST Search History

L10	46	L3 and @ad<"20030404"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 16:08
L12	0	L4 and @ad<"20030404"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 14:06
L13	22	L5 and @ad<"20030404"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 14:08
L14	6	L8 and ((neural adj stem) or (neural adj progenitor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 14:06
L15	0	L8 and @ad<"20030404"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 14:06
L16	5	(inhibit or inhibition or downregulate) with ((b-zip adj transcription adj factor) or ATF5 or ATF-5 or ATFX or ATF-X or ATF-7 or ATF7 or NTAzip-ATF5 or NTAzipATF5 or NTAzip-ATF-5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 14:08
L17	3	L16 and @ad<"20030404"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 14:10
L18	77	((((b-zip adj transcription adj factor) and ATF5) or ATF5 or ATF-5 or ATFX or ATF-X or ATF-7 or ATF7 or NTAzip-ATF5 or NTAzipATF5 or NTAzip-ATF-5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 14:11
L19	2	(inhibit or inhibition or downregulate) with (((b-zip adj transcription adj factor) and ATF5) or ATF5 or ATF-5 or ATFX or ATF-X or ATF-7 or ATF7 or NTAzip-ATF5 or NTAzipATF5 or NTAzip-ATF-5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 14:09

EAST Search History

L20	3	(inhibit or inhibition or downregulate) same (((b-zip adj transcription adj factor) and ATF5) or ATF5 or ATF-5 or ATFX or ATF-X or ATF-7 or ATF7 or NTAzip-ATF5 or NTAzipATF5 or NTAzip-ATF-5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 14:12
L21	1	L20 and @ad<"20030404"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 14:10
L22	77	(((b-zip adj transcription adj factor) and ATF5) or ATF5 or ATF-5 or ATFX or ATF-X or ATF-7 or ATF7 or NTAzip-ATF5 or NTAzipATF5 or NTAzip-ATF-5 or (activating adj transcription adj factor-5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 16:05
L23	3	(inhibit or inhibition or downregulate) same (((b-zip adj transcription adj factor) and ATF5) or ATF5 or ATF-5 or ATFX or ATF-X or ATF-7 or ATF7 or NTAzip-ATF5 or NTAzipATF5 or NTAzip-ATF-5 or (activating adj transcription adj factor-5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 16:07
L24	2	L23 and ((neural adj stem) or (neural adj progenitor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 14:12
L25	35	L3 and ((neurotrophic adj factor) or ngf (nerve adj growth adj factor) or GDNF or NT3 or CTNF or BDNF)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 15:58
L26	35	L3 and ((neurotrophic adj factor) or ngf or (nerve adj growth adj factor) or GDNF or NT3 or CTNF or BDNF)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 16:00
L27	34	L22 and ((neurotrophic adj factor) or ngf or (nerve adj growth adj factor) or GDNF or NT3 or CTNF or BDNF)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 15:59
L28	2	L23 and ((neurotrophic adj factor) or ngf or (nerve adj growth adj factor) or GDNF or NT3 or CTNF or BDNF)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 16:00

EAST Search History

L29	2	L27 and ((neural adj stem) or (neural adj progenitor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 16:01
L30	1638	((inhibit or inhibition or downregulate) same ((neurotrophic adj factor) or ngf or (nerve adj growth adj factor) or GDNF or NT3 or CTNF or BDNF))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 16:05
L31	8	L30 and (((b-zip adj transcription adj factor) and ATF5) or ATF5 or ATF-5 or ATFX or ATF-X or ATF-7 or ATF7 or NTAzip-ATF5 or NTAzipATF5 or NTAzip-ATF-5 or (activating adj transcription adj factor-5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 16:05
L32	2	L3 and ((differentiated or mature) adj (neural adj cell))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 16:10
L33	17	(inhibit or inhibitor or inhibition or downregulate) same (((b-zip adj transcription adj factor) and ATF5) or ATF5 or ATF-5 or ATFX or ATF-X or ATF-7 or ATF7 or NTAzip-ATF5 or NTAzipATF5 or NTAzip-ATF-5 or (activating adj transcription adj factor-5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 16:07
L34	10	L33 and @ad<"20030404"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 16:08
L35	0	L34 and ((neural adj stem) or (neural adj progenitor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 16:09
L36	2	L3 and (transplant\$ same ((differentiated or mature) adj (neural adj cell)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 16:10
L37	1	L3 and (transplant\$ same ((differentiated or mature) adj cell))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 16:10

EAST Search History

L38	2	L3 and (((differentiated or mature) adj (neural adj cell)) and ((green adj fluorescent adj protein) or eGFP))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/22 16:11
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